Navy Environmental Quality Fact Sheet

Do you generate used aircraft hydraulic fluid?

Would you like to improve this process in the following areas?

- ***Meeting environmental compliance regulations*** -- Reduce hazardous waste disposal. Applicable regulatory areas includes RCRA.
- ***Improving workers' safety and health*** --No change to current operations
- ***Increasing productivity*** -- Reduce disposal and procurement of hydraulic fluid.
- ***Saving money*** -- Decrease disposal costs and minimize the amount of hydraulic fluids purchased.

Hydraulic fluid purifier equipment

The hydraulic fluid purifier is a small, portable, electrically powered ground support system designed to recondition hydraulic fluid by removing contaminants to levels permissible for aircraft and support equipment. The system removes particulates, water, air and chlorinated solvent contaminants using 3-micron absolute filters, water adsorption filters, air dessicant filters, and a low vacuum. The hydraulic fluid purifier does not alter the physical or chemical properties of the reconditioned fluid. The unit is mobile and can decontaminate up to a rate of 3 gallons per minute depending upon the degree hydraulic fluid is contaminated. ***Caution: If hydraulic fluid is other than MIL-H-83282 contact technical POC to determine if this purifier meets your application. This equipment is available through the Navy Pollution Prevention Equipment Program or the Aviation Support Equipment Program.***

How can you achieve these improvements?

Implement Hydraulic Fluid Purifier Equipment.

How does this equipment work?

This technology reconditions MIL-H-83282 hydraulic fluid by removing contaminants to levels permissible for aircraft and support equipment.

How will this equipment save you money?

The hydraulic fluid purifier reduces hydraulic fluid procurement and disposal costs. The typical cost to implement is $9,500. The cost savings is highly variable depending on the amount recycled.

How can this technology eliminate or reduce pollution?

When implemented, this technology can eliminate the need to dispose of contaminated fluid. Implementation will result in the following pollution reductions:

- Significant Reduction of Waste Hydraulic Fluid
- Significant Reduction in Purchased Hydraulic Fluid

Which shops can benefit most from this technology?

This technology can be used in operations that require changing of contaminated hydraulic fluid. Typical shops include:

- Ground Support Equipment (GSE) Maintenance

Take action: How can you implement this technology?

- **Activity Shop & Work Center Personnel**. If you work at an activity, contact your Pollution Prevention Program Manager. The P2 Program Manager can provide more information and conduct a more detailed analysis, and may be able to provide this equipment at no cost to a Shop or Work Center.
- **Activity Pollution Prevention Manager**. Request funding and installation assistance for this technology through the Navy P2 Equipment Program. Depending on the application, the Environmental Requirements Cookbook may contain project submission information for annual budget submissions to your major claimant.
- **For Additional Technical Information**. More information about this technology can be found in the PPEP Equipment Book (Web: http:/www.lakehurst.navy.mil/p2/index.htm), which is contained in the Joint Service P2 Technical Library. (Web: http://www.nfesc.navy.mil/).

Achieving Environmental Compliance Through Pollution Prevention

Everyday the Navy faces the challenge of operating and maintaining the fleet while complying with environmental regulations. This burden can be reduced by implementing pollution prevention technologies and methods to reduce compliance requirements. This Fact Sheet is one in a series designed to encourage activities to implement pollution prevention technologies and methods. The overall goal of this series is to promote sustained environmental compliance at the lowest life-cycle cost.

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